

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PP04-0103	FOR FURTHER ACTION <div style="float: right; font-size: small;">see Form PCT/ISA/220 as well as, where applicable, item 5 below.</div>
International application No. PCT/KR2004/000640	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">International filing date (<i>day/month/year</i>) 24 MARCH 2004 (24.03.2004)</div> <div style="width: 35%;">(Earliest) Priority Date (<i>day/month/year</i>) 24 MARCH 2003 (24.03.2003)</div> </div>
Applicant LG CHEM, LTD et al	

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2004/000640

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 G03F 7/038**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 G03F 7/038, G03F 7/027, C07C 229/60, C07F 7/02,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR, JP: classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NPS, PAJ, DELPHION, ESPACENET

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<input checked="" type="checkbox"/> X	WO 2002/51909 A1 (04. JUL. 2002) (NISSAN CO., LTD) see the whole document	1
Y		2 - 5, 9 - 12, 15 - 16
<input checked="" type="checkbox"/> X	KR 2001-27145 A1 (06.Apri.2001) (LG CHEM. CO., LTD) see the whole document	1
Y		2 - 5, 9 - 12, 15 - 16
<input checked="" type="checkbox"/> X	JP 1999-227099 A (24. Aug. 1999) (MITSUBISHI CHEM. CO., LTD) see the whole document	1
Y		2 - 5, 9 - 12, 15 - 16
Y	EP 679 633 A1 (02. Nov.1995) (MITSUBISHI CHEM. CO., LTD) see the whole document	1
Y	WO 2000/6543 A1 (10. Feb. 2000) (CHISHO CO., LTD) see the whole document	1
Y	KR 2001-111272 A1 (12. Dec. 2001) (BP Corp.) see the whole document	2

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
16 JULY 2004 (16.07.2004)

Date of mailing of the international search report
23 JULY 2004 (23.07.2004)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/000640

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2002/51909 A1	04. JUL. 2002	KR 2003-77560 A1	10. Oct. 2003
KR 2001-27145 A1	06. Apr. 2001	NONE	
JP 1999-227099 A	24. Aug. 1999	NONE	
EP 679 633 A1	02. Nov. 1995	US 5861534 A DE 69513076 T2 JP 08012759 A2	19. Jan. 1999 02. Mar. 2000 16. Jan. 1996
WO 2000/6543 A1	10. Feb. 2000	EP 1020442 A1 CN 1274345 T1 US 6238752 BA	19. Jul. 2000 22. Nov. 1999 29. May. 2001
KR 2001-111272 A1	12. Dec. 2001 17	US 6479581 BA CA 2365584 AA WO 0053677 A1 JP 14538278 A2	12. Nov. 2002 14. Sep. 2000 14. Sep. 2000 12. Nov. 2002